



## Quarterly Report October Through December 2010 Greenbrook Elementary School Investigation Area

## Submitted to:

**EPA Region 5** 77 West Jackson Boulevard Chicago, IL 60604-3590

## Prepared for:

BFI Waste Systems of North America, LLC 26W580 Schick Road Hanover Park, IL 60133

## Prepared by:

**AECOM** 4135 Technology Parkway Sheboygan, WI 53083

January 2011

AECOM Project No. 60151902

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#### 1.0 INTRODUCTION

## 1.1 Purpose

This quarterly monitoring report documents site activities and monitoring data for October through December 2010 near Greenbrook Elementary School, Hanover Park, IL ("School Area"). This monitoring period began after the monitoring data previously reported in the Soil Equilibrium Test Evaluation Report for the Greenbrook School Investigation Area submitted to Illinois Protection Agency and United States Environmental Protection Agency on October 29, 2010. The monitoring data presented in this report includes gas probe monitoring data, a map, and a summary table demonstrating the current extent of combustible soil gas. In addition to monitoring data, this report includes documentation of temporary gas probe abandonments approved by USEPA in October 2010 for the School Area, a discussion of the current operations of the gas extraction system, and the monitoring program for the probes and wells that is currently implemented.

## 1.2 Site Location

The School Area encompasses the area directly east of the West Branch of the DuPage River to the eastern extent of the School property and from the southern portion of Heritage Park to the northeast corner of the permitted boundary of the Mallard Lake Landfill property. The School Area is located on partially on Mallard Lake Forest Preserve property owned by the Forest Preserve District of DuPage County ("FPDDC") and on property owned by Keenyville Elementary School District 20.

## 1.3 Corrective Action Status

Remedial corrective actions in the School Area are being conducted simultaneously with off-site remedial actions adjacent to the MLL. The following summarizes the major correspondence since the beginning of October:

October 12, 2010 – AECOM, on behalf of BFI and the FPDDC, submits temporary gas probe abandonment request for selected School Area probes.

October 27, 2010 – USEPA approves 19 of 20 proposed gas monitoring probe abandonment locations for the School Area.

October 29, 2010 – AECOM, on behalf of BFI and the FPDDC submits the Soil Equilibrium Test Evaluation Report for the Greenbrook School Investigation Area.

November 17, 2010 – AECOM abandons the 19 gas monitoring probes in the School Area as approved by USEPA.

## 2.0 MONITORING

Site monitoring has progressed from start-up monitoring to monitoring that matches the current changes in extraction and methane concentrations. This includes changes in the number of monitoring probes as a result of USEPA-approved probe abandonments. The approvals and abandonment data probes abandoned in November 2010 are included in Appendix A. Monitoring conducted as part of the soil equilibrium test was initiated on July 19, 2010, as described in the Soil Equilibrium Test Evaluation Report for the Greenbrook School Area, and continues to present as described in this section. These monitoring activities have been coordinated with the USEPA and the IEPA staff to continue the corrective action and move the project toward final monitoring status.

The current monitoring probes in the School Area are listed in Table 1 and shown on Figure 1. This monitoring probe network is monitored every 10 days for methane, carbon dioxide, oxygen, balance gas and static pressure. Soil gas monitoring is performed by attaching a Landtec GEM500 or Landtec GEM2000 ("GEM") portable landfill gas meter to the probe and initially measuring static pressure in the probe. The GEM is then run for 3 minutes or shorter if the methane concentration stabilizes. Following the GEM monitoring the probe or well is opened for a water level measurement, as needed.

## 3.0 CORRECTIVE ACTION MEASURES UPDATE

Pursuant to USEPA approval of the soil equilibrium test, mobile oxidizer extraction and remedial operations at LDE-13 were suspended at the School Area on July 14, 2010. The suspension of remedial activities continues to be in effect pending review of the data evaluation presented in the Soil Equilibrium Test Evaluation Report for the Greenbrook School Investigation Area and additional quarterly monitoring data presented in this report.

## 4.0 QUARTERLY DATA EVALUATION

This monitoring period (October through December 2010) provides additional School Area monitoring probe network data to evaluate soil conditions without active extraction in the School Area.

Gas monitoring probe data from the School Area generally indicate consistent methane concentrations and static pressures during this reporting period and historically. Monitoring data at 19 of the 28 probes which comprise the current monitoring network have not measured methane above 0.2 percent by volume over this reporting period. Most of these 19 probes only had one reading above zero which occurred on November 29, 2010.

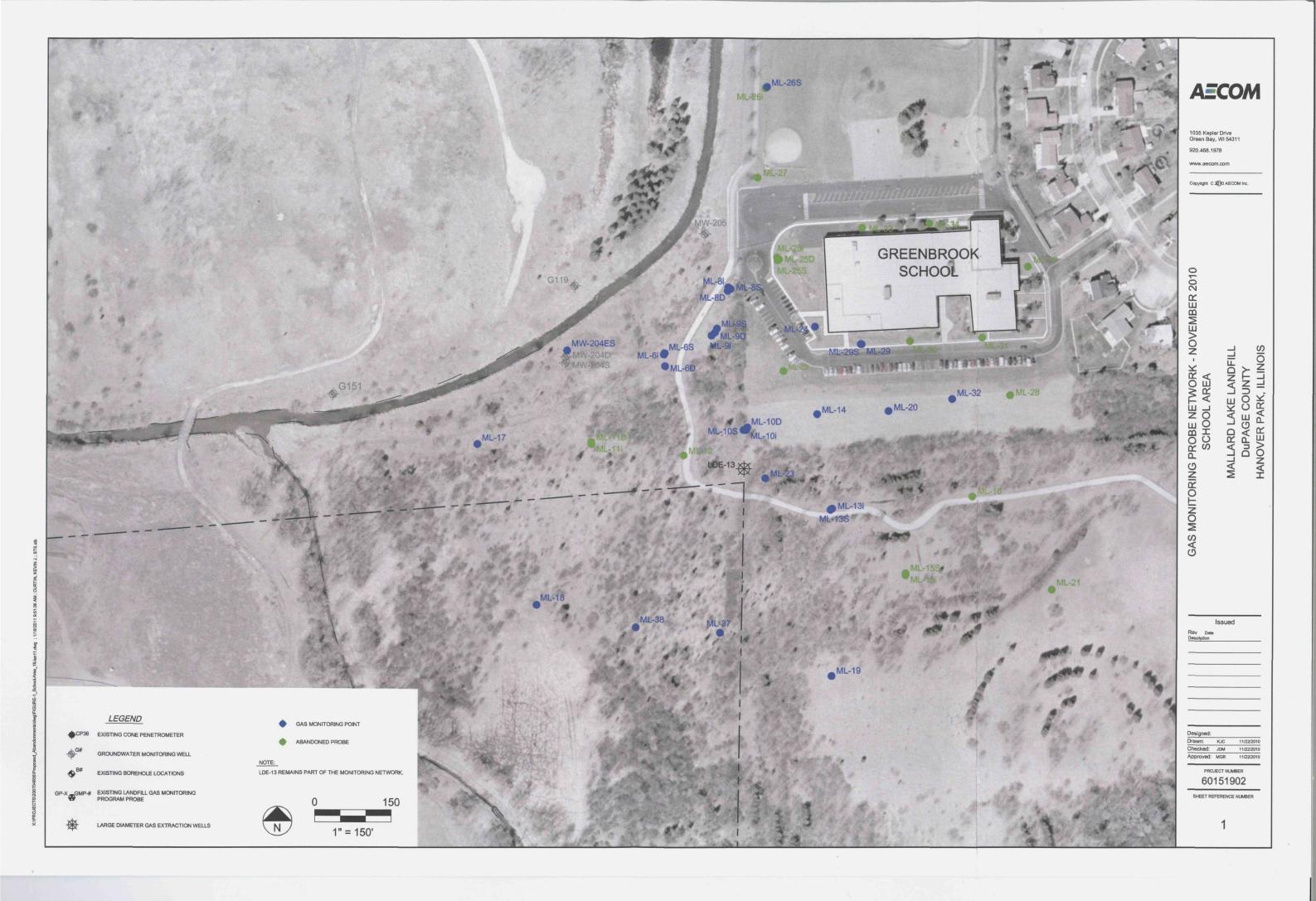
The remaining 9 of 28 probes comprising the current monitoring network have indicated methane concentrations above 0.2 percent by volume. Table 2 summarizes the methane concentrations for probes and wells with methane detections in the School Area. Graphical analyses for these probes are presented in Appendix B. Individual gas monitoring probe and well readings are provided in Appendix C.

Monitoring conducted as part of the soil equilibrium test (described in Section 2) in the School Area will continue pending USEPA and IEPA review of past reports.

Figures

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Tables

## School Area Monitoring Network October - December 2010 Mallard Lake Landfill, Hanover Park, Illinois

Probes
ML-06D
ML-06I
ML-06S
ML-08D
ML-08I
ML-08S
ML-09D
ML-09I
ML-09S
ML-10D
ML-10I
ML-10S
ML-13I
ML-13S
ML-1 <u>4</u>
ML-17
ML-18
ML-19
ML-20
ML-23
ML-24S
ML-26S
ML-29
ML-29S
ML-32S
ML-37
ML-38
MW-204ES
Wells
LDE-13

# School Area Probes and Wells Methane Concentration Summary October - December 2010 Mallard Lake Landfill, Hanover Park, Illinois

Probes	Comments
ML-08D	One anomalous methane detection on 11/1/10 coincident with pressure increase; all other methane concentrations <0.1%
ML-08I	No air flow; methane concentrations consistent with historical concentrations
ML-10I	Recent higher methane concentrations beginning 12/17/10; coincident with slightly higher static pressures.
ML-13I	No air flow; methane concentrations consistent with historical concentrations
ML-14	One isolated measurement of 1.1% methane on 12/29/10; all other methane concentration <0.1%.
ML-20	No air flow; methane concentrations consistent with historical concentrations.
ML-26S	One isolated measurement of 1.8% methane on 10/11/10; methane concentrations since then are zero.
ML-29	Methane concentrations consistent with historical concentrations.
MW-204ES	No methane until 10/11/10; recent increase in methane concentrations coincident with drop in groundwater levels
Wells	
LDE-13	Methane concentrations consistent with historical concentrations

Appendices

Appendix A

**Probe Abandonments** 



#### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 77 WEST JACKSON BOULEVARD CHICAGO, IL 60604-3590

October 27, 2010

REPLY TO THE ATTENTION OF

Jim Hitzeroth Republic Services, Inc. 26 W 580 Schick Rd. Hanover Park, IL 60133

Re: U.S. EPA Partial Approval of Abandonment Requests for Gas Monitoring Probes in West, South and Greenbrook School Investigation Areas, Mallard Lake Landfill, Hanover Park, IL -US EPA Docket No. RCRA 7003-5-08-001

Dear Mr. Hitzeroth:

The United States Environmental Protection Agency (EPA) has completed its review of the "Abandonment Request - Temporary Gas Monitoring Probe Network West and South Investigation Areas," and "Abandonment Request - Temporary Gas Monitoring Probe Networks Greenbrook School Investigation Area," prepared by AECOM, Inc., submitted on October 12, 2010.

EPA approves the abandonment of the temporary gas probes outlined in the requests except for probes B-7, CP-5, CP-13 and ML-32. Given the location of these probes and/or historic gas detections, these probes will remain in the monitoring program for a longer period. EPA requests that upon completion of the abandonment process, a set of updated gas monitoring network maps be submitted to EPA and IEPA within 10 days.

Thank you very much for your cooperation. If you have any questions, please feel free to contact me at (312) 886-6864.

Sincerely.

Jacob Hassan

**Environmental Scientist** 

Eric Ballenger, BFI CC:

Mike Ruetten, AECOM

Paul Ruesch, USEPA, SFD, Chicago, IL
Tom Krueger, USEPA, ORC, Chicago, IL
Richard Wagner, USEPA, ORC, Chicago, IL
Joy Hinz, DuPage County
Joe Benedict, Forest Preserve District of DuPage County
Tom Rivera, IEPA, Des Plaines, IL

## ILLINOIS DEPARTMENT OF PUBLIC HEALTH DIVISION OF ENVIRONMENTAL HEALTH 525 W. JEFFERSON ST. SPRINGFIELD, IL 62761



## WATER WELL SEALING FORM

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This form shall be submitted to this Department or the local health department not more than 30 days after a water well, boring or monitoring well is sealed. Such wells are to be sealed not more than 30 days after they are abandoned in accordance with the sealing requirements in the Illinois Water Well Construction Code. THE LOCAL HEALTH DEPARTMENT OR REGIONAL PUBLIC HEALTH DEPARTMENT MUST BE NOTIFIED AT LEAST 48 HOURS PRIOR TO SEALING.

1.	Ownership (Name of Controlling Party)	BFI Waste Systems of North America, LLC	
2.	Well Location: Well Site Address 26	W580 Schick Road City Hanover Park Zip 6013	3
	Lot # Land I.D.# ML-11	County DuPage Township 40N	
	Range 10E Section 7	SW Quarter of the SE Quarter of the NW Quar	rter
	GPS: North Degrees Minutes	Seconds West Degrees Minutes Seconds	
		nds by multiplying the decimal part of the minutes by 60, e.g. latitude 38 degrees 46.07 minutes seconds (0.07 x 60 = 4.2) N. Report GPS coordinates to the nearest 0.1 second.	tes N
3.	Year Drilled 2008 4. Drillin	ng Permit Number (and date, if known	
5.	Type of Well Drilled	6. Total Depth (ft.) 37.75 Diameter (in.)	
7.	Formation clear of obstruction Yes		
8.	Detains of Plugging (bentonite, neat ceme	ent or other materials)	
	Filled with 3/8" Bentonite Pellets	From (ft.) 37.75 to (ft.) 0.7	
	Kind of plug Topsoil	From (ft.) 0.7 to (ft.) 0	
	Filled with	From (ft.) to (ft.)	
	Kind of plug	From (ft.) to (ft.)	
	Filled with	From (ft.) to (ft.)	
	Kind of plug	From (ft.) to (ft.)	
9.	CASING RECORD Upper 2 feet of casing	g removed Yes 10. Date well was sealed Nov 17, 2010	
11.	Licensed water well driller or other person	n approved by the Department performing well sealing	
	Name Jeff Maletzke	Complete License Number NA	,
	Address 255 Corporate Woods Pkwy	y. City Vernon Hills State Illinois Zip Code 6000	61

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1.	Ownership (Name of Controlling Party)	I Waste Sy	stems of North	America	a, LLC		
2.	Well Location: Well Site Address 26W58	30 Schick F	Road	City F	lanover Park	Zip	60133
	Lot # Land I.D.# ML-11D		County Du	Page		Township	40N
	Range 10E Section 7	sw	Quarter of the	SE	Quarter of th	ne NW	Quarter
	GPS: North Degrees Minutes	Seconds		Vest Degrees	Minutes	Second	<u> </u>
	Report decimal minutes to minutes and seconds by would be latitude 38 degrees 46 minutes 4.2 seconds.						7 minutes N
3.	Year Drilled 2008 4. Drilling Pe	ermit Numbe	r (and date, if kn	own NA	1		
5.	Type of Well Drilled 6	Total Dept	h (ft.) 60.2		Piameter (in.)	,	
7.	Formation clear of obstruction Yes						* * * * * * * * * * * * * * * * * * *
8.	Detains of Plugging (bentonite, neat cement o	r other mate	rials)				
	Filled with 3/8" Bentonite Pellets	From (ft.)	60	.2 to	(ft.)	0.7	
	Kind of plug Topsoil	From (ft.)	0	.7 to	(ft.)	0	
	Filled with	From (ft.)		to	(ft.)		
	Kind of plug	From (ft.)		to	(ft.) <sup>2</sup>		
	Filled with	From (ft.)		to	(ft.)		
	Kind of plug	From (ft.)		to	(ft.)		
9.	CASING RECORD Upper 2 feet of casing rer	noved Yes	s	I0. Date	well was sealed	Nov 17, 2010	)
11.	Licensed water well driller or other person app	proved by the	e Department pe	rforming v	vell sealing		
	Name Jeff Maletzke		Complete Lice	nse Num	ber NA		
	Address 255 Corporate Woods Pkwy.	City Vern	on Hills	State	Illinois	Zip Code	60061

This state agency is requesting discolsure of information that is necessary to accomplish the statutory purpose as outlined under Public Act-0863. Disclosure of this information is mandatory. This form has been approved by the Forms Management Center. IL 482-0631- Revised 5/09

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1.	Ownership (N	lame of Controlling	Party) BI	FI Waste Sy	stems of N	lorth Ame	rica, LLC			
2.	Well Location	: Well Site Addres	ss 26W5	80 Schick R	load	City	Hanove	er Park	Zip	60133
	Lot#	Land I.D.#	ML-12		County	DuPage			Township	40N
	Range 10	E Section	7	SW	Quarter of	the SE	Qı	uarter of the	NW	Quarter
	GPS: North Degree	ees Minu	ites	Seconds		West Degree	s	Minutes	Second	ds
		al minutes to minutes a ude 38 degrees 46 min								7 minutes N
3.	Year Drilled	2008	4. Drilling P	ermit Numbe	r (and date,	if known	NA			
5.	Type of Well	Drilled	6	. Total Depth	n (ft.) 36.	5	Diamete	er (in.) 1		
7.	Formation cle	ear of obstruction	Yes							
8.	Detains of Plu	ugging (bentonite, no	eat cement o	or other mater	rials)					
	Filled with	3/8" Bentonite Pe	ellets	From (ft.)		36.5	to (ft.)		0.7	
	Kind of plug	Topsoil		From (ft.)		0.7	to (ft.)		0	
	Filled with			From (ft.)			to (ft.)			
	Kind of plug			From (ft.)			to (ft.)			
	Filled with			From (ft.)			to (ft.)			2
	Kind of plug			From (ft.)			to (ft.)			
9.	CASING REC	CORD Upper 2 feet	of casing re	moved Yes		10. Da	ite well wa	s sealed	lov 17, 2010	
11.	Licensed wat	er well driller or other	er person ap	proved by the	Departmen	nt performir	ng well sea	aling		
	Name Ma	ark Magee			Complete	License N	umber N	Α		## 1
	Address	255 Corporate Woo	ods Pkwy.	City Verno	on Hills	State	Illinois		Zip Code	60061

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			1							
1.	Ownership (N	Name of Controlling	Party) BF	I Waste Sy	stems of N	lorth Ame	erica, LL	.c		
2.	Well Location	Well Site Addres	ss 26W5	80 Schick R	load	City	Hano	ver Park	Zip	60133
	Lot#	Land I.D.#	ML-15I		County	DuPage			Township	40N
	Range 10	DE Section	7	NW	Quarter of	the NW		Quarter of the	SW	Quarter
	GPS: North		utes	Seconds		West Degree	es	Minutes	Second	ds
		nal minutes to minutes a tude 38 degrees 46 mir								7 minutes N
3.	Year Drilled	2008	4. Drilling Po	ermit Numbe	r (and date,	if known	NA			
5.	Type of Well	Drilled	6	. Total Depti	n (ft.) 43.	5	Diame	eter (in.) 0.75		
7.	Formation cle	ear of obstruction	Yes							
8.	Detains of Pl	ugging (bentonite, n	eat cement o	or other mater	rials)					
	Filled with	3/8" Bentonite Pe	ellets	From (ft.)		43.5	to (ft.)		0.7	
	Kind of plug	Topsoil		From (ft.)		0.7	to (ft.)		0	
	Filled with			From (ft.)			to (ft.)			
	Kind of plug			From (ft.)			to (ft.)			
	Filled with			From (ft.)			to (ft.)			
	Kind of plug			From (ft.)			to (ft.)			
9.	CASING RE	CORD Upper 2 feet	of casing rea	moved Yes		10. Da	ate well v	was sealed N	ov 17, 2010	
1.	Licensed wa	ter well driller or othe	er person app	proved by the	Departmen	nt performi	ng well s	sealing		
	Name M	ark Magee			Complete	License N	lumber	NA		
	Address	255 Corporate Woo	ods Pkwy.	City Verno	on Hills	State	Illino	is	Zip Code	60061

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1.	Ownership (Name of Controlling Party)  BFI Waste Systems of North America, LLC
2.	Well Location: Well Site Address 26W580 Schick Road City Hanover Park Zip 60133
	Lot # Land I.D.# ML-15S County DuPage Township 40N
	Range 10E Section 7 NW Quarter of the NW Quarter of the SW Quarter
	GPS: North Degrees Minutes Seconds West Degrees Minutes Seconds
	Report decimal minutes to minutes and seconds by multiplying the decimal part of the minutes by 60, e.g. latitude 38 degrees 46.07 minutes N would be latitude 38 degrees 46 minutes 4.2 seconds (0.07 x 60 = 4.2) N. Report GPS coordinates to the nearest 0.1 second.
3.	Year Drilled 2008 4. Drilling Permit Number (and date, if known NA
5.	Type of Well Drilled 6. Total Depth (ft.) 24.3 Diameter (in.) 0.75
7.	Formation clear of obstruction Yes
8.	Detains of Plugging (bentonite, neat cement or other materials)
	Filled with 3/8" Bentonite Pellets From (ft.) 24.3 to (ft.) 0.7
	Kind of plug Topsoil From (ft.) 0.7 to (ft.) 0
	Filled with From (ft.) to (ft.)
	Kind of plug From (ft.) to (ft.)
	Filled with From (ft.) to (ft.)
	Kind of plug From (ft.) to (ft.)
9.	CASING RECORD Upper 2 feet of casing removed Yes 10. Date well was sealed Nov 17, 2010
11.	Licensed water well driller or other person approved by the Department performing well sealing
	Name Mark Magee Complete License Number NA
	Address 255 Corporate Woods Pkwy. City Vernon Hills State Illinois Zip Code 60061

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1.	wnership (Name of Controlling Party)  BFI Waste Systems of North America, LLC	
2.	Vell Location: Well Site Address 26W580 Schick Road City Hanover Park Zip 60133	
	Lot # Land I.D.# ML-16 County DuPage Township 40N	
	Range 10E Section 7 NW Quarter of the NW Quarter of the SW Quarter	
	SPS: North Degrees Minutes Seconds West Degrees Minutes Seconds	water case charles dilly
	Report decimal minutes to minutes and seconds by multiplying the decimal part of the minutes by 60, e.g. latitude 38 degrees 46.07 minutes $^{1}$ would be latitude 38 degrees 46 minutes 4.2 seconds (0.07 x 60 = 4.2) N. Report GPS coordinates to the nearest 0.1 second.	1
3.	ear Drilled 2008 4. Drilling Permit Number (and date, if known NA	
5.	ype of Well Drilled 6. Total Depth (ft.) 43.08 Diameter (in.) 0.75	
7.	ormation clear of obstruction Yes	
8.	etains of Plugging (bentonite, neat cement or other materials)	
	illed with 3/8" Bentonite Pellets From (ft.) 43.08 to (ft.) 0.7	
	find of plug Topsoil From (ft.) 0.7 to (ft.)	
	illed with From (ft.) to (ft.)	
	(ind of plug From (ft.) to (ft.)	
	From (ft.) to (ft.)	
	(ind of plug From (ft.) to (ft.)	
9.	ASING RECORD Upper 2 feet of casing removed Yes 10. Date well was sealed Nov 17, 2010	
11.	icensed water well driller or other person approved by the Department performing well sealing	
	Name Brian Schmidt Complete License Number NA	
	Address 255 Corporate Woods Pkwy. City Vernon Hills State Illinois Zip Code 60061	

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1.	wnership (Name of Controlling Party)  BFI Waste Systems of North America, LLC	
2.	/ell Location: Well Site Address 26W580 Schick Road City Hanover Park Zip 60133	
	Lot # Land I.D.# ML-21 County DuPage Township 40N	
	Range 10E Section 7 NW Quarter of the NW Quarter of the SE Quarter	
	SPS: North Degrees Minutes Seconds West Degrees Minutes Seconds	
	Report decimal minutes to minutes and seconds by multiplying the decimal part of the minutes by 60, e.g. latitude 38 degrees 46.07 minutes would be latitude 38 degrees 46 minutes 4.2 seconds (0.07 x 60 = 4.2) N. Report GPS coordinates to the nearest 0.1 second.	N
3.	ear Drilled 2008 4. Drilling Permit Number (and date, if known NA	
5.	ype of Well Drilled 6. Total Depth (ft.) 44.9 Diameter (in.) 0.75	
7.	ormation clear of obstruction Yes	
8.	etains of Plugging (bentonite, neat cement or other materials)	
	illed with 3/8" Bentonite Pellets From (ft.) 44.9 to (ft.) 0.7	
	ind of plug Topsoil From (ft.) 0.7 to (ft.) 0	
	illed with From (ft.) to (ft.)	
	ind of plug From (ft.) to (ft.)	
	illed with From (ft.) to (ft.)	
	find of plug From (ft.) to (ft.)	
9.	ASING RECORD Upper 2 feet of casing removed Yes 10. Date well was sealed Nov 17, 2010	-
1.	icensed water well driller or other person approved by the Department performing well sealing	
	Name Mark Magee Complete License Number NA	
	Address 255 Corporate Woods Pkwy. City Vernon Hills State Illinois Zip Code 60061	

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1.	Ownership (Name of Controlling Party)	BFI Waste Sy	stems of No	rth Ameri	ca, LLC		
2.	Well Location: Well Site Address 26W	/580 Schick R	Road	City	Hanover Park	Zip	60133
	Lot# Land I.D.# ML-22		County [	DuPage		Township	40N
	Range 10E Section 7	SE	Quarter of th	ne SE	Quarter of the	NW	Quarter
	GPS: North Degrees Minutes	Seconds		West Degrees	Minutes	Second	ls
	Report decimal minutes to minutes and seconds would be latitude 38 degrees 46 minutes 4.2 se						7 minutes N
3.	Year Drilled 2009 4. Drilling	Permit Numbe	r (and date, if	known I	NA		
5.	Type of Well Drilled	6. Total Depti	h (ft.) 31.58	8	Diameter (in.)	5	
7.	Formation clear of obstruction Yes						
8.	Detains of Plugging (bentonite, neat cement	t or other mater	rials)				
	Filled with 3/8" Bentonite Pellets	From (ft.)	3.	1.58	to (ft.)	0.7	
	Kind of plug Topsoil	From (ft.)		0.7	to (ft.)	0	
	Filled with	From (ft.)		1	to (ft.)		
	Kind of plug	From (ft.)		1	to (ft.)		
	Filled with	From (ft.)		1	to (ft.)		
	Kind of plug	From (ft.)			to (ft.)		
9.	CASING RECORD Upper 2 feet of casing in	removed Yes	<b>S</b>	10. Date	e well was sealed	Nov 17, 2010	
1.	Licensed water well driller or other person a	approved by the	e Department	performing	g well sealing		
	Name Brian Schmidt		Complete L	icense Nu	mber NA		The state of the s
	Address 255 Corporate Woods Pkwy.	City Verno	on Hills	State	Illinois	Zip Code	60061

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1.	Ownership (Name	of Controlling Party)	BFI Waste Sy	stems of Nort	h America,	LLC		
2.	Well Location:	Vell Site Address 26	W580 Schick F	Road	City Ha	nover Park	Zip	60133
	Lot#	Land I.D.# ML-25	D ·	County Du	ıPage		Township	40N
	Range 10E	Section 7	SE	Quarter of the	SE	Quarter of the	NW	Quarter
	GPS: North Degrees	Minutes	Seconds		West Degrees	Minutes	Second	ds
		outes to minutes and secon 8 degrees 46 minutes 4.2 s						7 minutes N
3.	Year Drilled 200	)9 4. Drillin	g Permit Numbe	r (and date, if k	nown NA			
5.	Type of Well Dri	lled	6. Total Dept	h (ft.) 70.3	Dia	meter (in.) 0.75		
7.	Formation clear of	obstruction Yes						
8.	Detains of Plugging	g (bentonite, neat ceme	ent or other mate	rials)		ž		*
	Filled with 3/8"	Bentonite Pellets	From (ft.)	70	).3 to (f	t.)	0.7	
	Kind of plug Top	osoil	From (ft.)		).7 to (f	t.)	0	
	Filled with		From (ft.)		to (f	t.)		
	Kind of plug		From (ft.)		to (f	t.)		
	Filled with		From (ft.)		to (f	t.)		
	Kind of plug		From (ft.)		to (f	t.)		
9.	CASING RECORD	Upper 2 feet of casing	g removed Yes		10. Date we	ell was sealed	lov 17, 2010	
11.	Licensed water we	ell driller or other persor	approved by the	e Department pe	erforming we	ll sealing		
	Name Mark M	agee		Complete Lice	ense Numbe	r NA		
	Address 255 (	Corporate Woods Pkw	y. City Verne	on Hills	State IIIi	nois	Zip Code	60061

This state agency is requesting discolsure of information that is necessary to accomplish the statutory purpose as outlined under Public Act-0863. Disclosure of this information is mandatory. This form has been approved by the Forms Management Center. IL 482-0631- Revised 5/09

## ILLINOIS DEPARTMENT OF PUBLIC HEALTH DIVISION OF ENVIRONMENTAL HEALTH 525 W. JEFFERSON ST. SPRINGFIELD, IL 62761



## WATER WELL SEALING FORM

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1.	Ownership (Name	of Controlling Party)	BFI Waste Sy	stems of No	orth Ameri	ica, LLC		
2.	Well Location:	Vell Site Address 26V	W580 Schick F	Road	City	Hanover Park	Zip	60133
	Lot#	Land I.D.# ML-25I		County	DuPage		Township	40N
	Range 10E	Section 7	SE	Quarter of t	he SE	Quarter of th	e NW	Quarter
	GPS: North Degrees	Minutes	Seconds		West Degrees	Minutes	Secon	ds
		autes to minutes and second 8 degrees 46 minutes 4.2 s						7 minutes N
3.	Year Drilled 200	)9 4. Drilling	g Permit Numbe	r (and date, i	known	NA .		
5.	Type of Well Dri	illed	6. Total Depti	h (ft.) 45	1	Diameter (in.)	75	
7.	Formation clear of	obstruction Yes						
8.	Detains of Plugging	g (bentonite, neat cemer	nt or other mate	rials)				
	Filled with 3/8"	Bentonite Pellets	From (ft.)		45	to (ft.)	0.7	
	Kind of plug Top	osoil	From (ft.)		0.7	to (ft.)	0	
	Filled with		From (ft.)			to (ft.)		
	Kind of plug		From (ft.)			to (ft.)		
	Filled with		From (ft.)			to (ft.)		
	Kind of plug		From (ft.)			to (ft.)		
9.	CASING RECORD	O Upper 2 feet of casing	removed Yes		10. Date	e well was sealed	Nov 17, 2010	)
11.	Licensed water we	ell driller or other person	approved by the	e Department	performing	g well sealing		
	Name Mark M	agee		Complete I	icense Nu	mber NA		
	Address 255 (	Corporate Woods Pkwy	. City Verno	on Hills	State	Illinois	Zip Code	60061

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1.	Ownership (Name of Controlling Party)  BFI Waste Systems of North America, LLC
2.	Well Location: Well Site Address 26W580 Schick Road City Hanover Park Zip 60133
	Lot# Land I.D.# ML-25S County DuPage Township 40N
	Range 10E Section 7 SE Quarter of the SE Quarter of the NW Quarter
	GPS: North Degrees Minutes Seconds West Degrees Minutes Seconds
	Report decimal minutes to minutes and seconds by multiplying the decimal part of the minutes by $60$ , e.g. latitude $38$ degrees $46.07$ minutes N would be latitude $38$ degrees $46$ minutes $4.2$ seconds $(0.07 \times 60 = 4.2)$ N. Report GPS coordinates to the nearest $0.1$ second.
3.	Year Drilled 2009 4. Drilling Permit Number (and date, if known NA
5.	Type of Well Drilled 6. Total Depth (ft.) 26.6 Diameter (in.) 0.75
7.	Formation clear of obstruction Yes
8.	Detains of Plugging (bentonite, neat cement or other materials)
	Filled with 3/8" Bentonite Pellets From (ft.) 26.6 to (ft.) 0.7
	Kind of plug Topsoil From (ft.) 0.7 to (ft.) 0
	Filled with From (ft.) to (ft.)
	Kind of plug From (ft.) to (ft.)
	Filled with From (ft.) to (ft.)
	Kind of plug From (ft.) to (ft.)
9.	CASING RECORD Upper 2 feet of casing removed Yes 10. Date well was sealed Nov 17, 2010
1.	Licensed water well driller or other person approved by the Department performing well sealing
	Name Mark Magee Complete License Number NA
	Address 255 Corporate Woods Pkwy. City Vernon Hills State Illinois Zip Code 60061

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Ownership (N	Name of Controlling	Party) Bl	FI Waste Sy	stems of N	North Ame	erica, LL	_C		
Well Location	m: Well Site Addre	ess 26W5	80 Schick R	load	City	Hand	over Park	Zip	60133
Lot#	Land I.D.#	ML-26I		County	DuPage			Township	40N
Range 10	0E Section	7	NE	Quarter of	the SE	1	Quarter of the	NW	Quarter
		utes	Seconds		West Degre	es	Minutes	Second	ds
									7 minutes N
Year Drilled	2009	4. Drilling P	ermit Number	(and date,	if known	NA			
Type of Well	Drilled	6	6. Total Depth	n (ft.) 29	.33	Diam	eter (in.) 0.75	5	e 4
Formation cle	ear of obstruction	Yes							
Detains of Pl	lugging (bentonite, n	eat cement o	or other mater	rials)					
Filled with	3/8" Bentonite P	ellets	From (ft.)		29.33	to (ft.)		0.7	
Kind of plug	Topsoil		From (ft.)		0.7	to (ft.)		0	
Filled with		-	From (ft.)			to (ft.)			
Kind of plug			From (ft.)			to (ft.)			
Filled with			From (ft.)		7	to (ft.)		***************************************	
Kind of plug			From (ft.)			to (ft.)			
CASING RE	CORD Upper 2 feet	t of casing re	moved Yes		10. D	ate well	was sealed	Nov 17, 2010	)
Licensed wa	ter well driller or oth	er person ap	proved by the	Departme	nt perform	ing well s	sealing		
Name Br	rian Schmidt			Complete	License N	Number	NA		
Address	255 Corporate Wo	ods Pkwy.	City Verno	on Hills	Stat	e Illino	ois	Zip Code	60061
,	Well Locatio Lot # Range 11  GPS: North Degree Report decin would be lated at the later of Well Formation of Perilled with Kind of plug Filled with Kind of plug Filled with Kind of plug Filled with Kind of plug CASING RELicensed was Name B	Well Location:  Lot # Land I.D.#  Range 10E Section  GPS: North Degrees Minutes to minutes would be latitude 38 degrees 46 min	Well Location:  Lot # Land I.D.# ML-26I  Range 10E Section 7  GPS: North Degrees Minutes and seconds to would be latitude 38 degrees 46 minutes 4.2 section 4. Drilling Parameter of Obstruction Type of Well Drillied 6. Formation clear of obstruction Type of Plugging (bentonite, neat cement of Filled with Topsoil Topsoil Topsoil Filled with Topsoil Topsoil Filled with Topsoil Topsoil Filled with Topsoil Topsoil Filled with Topsoil T	Well Location:  Well Site Address  26W580 Schick R  Lot # Land I.D.# ML-26I  Range 10E Section 7 NE  GPS: North Degrees Minutes and seconds by multiplying the would be latitude 38 degrees 46 minutes 4.2 seconds (0.07 x 60)  Year Drilled 2009 4. Drilling Permit Number 6. Total Depth  Formation clear of obstruction Yes  Detains of Plugging (bentonite, neat cement or other mater Filled with 3/8" Bentonite Pellets From (ft.)  Kind of plug Topsoil From (ft.)  Filled with From (ft.)  Kind of plug From (ft.)	Well Location:  Well Site Address  26W580 Schick Road  Lot # Land I.D.# ML-26I County  Range 10E Section 7 NE Quarter of  GPS: North Degrees Minutes Seconds  Report decimal minutes to minutes and seconds by multiplying the decimal proposed by the decimal proposed for the seconds (0.07 x 60 = 4.2) N. Reference for the seconds (0.07 x 60 = 4.2) N. Refere	Well Location: Well Site Address	Well Location: Well Site Address	Well Location:  Well Site Address  26W580 Schick Road  City Hanover Park  Lot # Land I.D.# ML-26I  County DuPage  Range 10E Section 7 NE Quarter of the SE Quarter of the Obegrees Minutes Seconds Degrees Minutes by 60, e.g. latitude 3 degrees 46 minutes 4.2 seconds (0.07 x 60 = 4.2) N. Report GPS coordinates to the nearest Year Drilled 2009 4. Drilling Permit Number (and date, if known NA  Type of Well Drilled 6. Total Depth (ft.) 29.33 Diameter (in.) 0.75  Formation clear of obstruction Yes  Detains of Plugging (bentonite, neat cement or other materials)  Filled with 3/8" Bentonite Pellets From (ft.) 0.7 to (ft.)  Filled with From (ft.) to (ft.)  Filled with From (ft.) to (ft.)  CASING RECORD Upper 2 feet of casing removed Yes 10. Date well was sealed Licensed water well driller or other person approved by the Department performing well sealing  Name Brian Schmidt Complete License Number NA	Well Location: Well Site Address 26W580 Schick Road City Hanover Park Zip  Lot # Land I.D.# ML-261 County DuPage Township  Range 10E Section 7 NE Quarter of the SE Quarter of the NW  GPS: North Degrees Minutes Seconds Degrees Minutes Seconds Degrees Minutes Seconds Degrees Minutes Seconds Seconds Degrees Minutes Seconds Second Seconds Seconds Seconds Seconds Seconds Seconds Seconds Second Seconds Seconds Second S

## ILLINOIS DEPARTMENT OF PUBLIC HEALTH DIVISION OF ENVIRONMENTAL HEALTH 525 W. JEFFERSON ST. SPRINGFIELD, IL 62761



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1.	Ownership (I	Name of Controlling	Party) B	FI Waste Sy	stems of No	orth Ame	rica, LLC			
2.	Well Location	n: Well Site Addre	ess 26W5	80 Schick R	load	City	Hanover F	Park	Zip	60133
	Lot#	Land I.D.#	ML-27		County	DuPage		-	Township	40N
	Range 10	0E Section	7	SE	Quarter of t	he SE	Quart	er of the	. NW	Quarter
	GPS: North Degr	h rees Mine	utes	Seconds		West Degree	s M	nutes	Secon	ds
	Report decin would be lati	nal minutes to minutes itude 38 degrees 46 mi	and seconds nutes 4.2 seco	by multiplying thonds (0.07 x 60	ne decimal par = 4.2) N. Rep	t of the min	outes by 60, e.goordinates to th	. latitude 3 e nearest (	8 degrees 46.0 0.1 second.	7 minutes N
3.	Year Drilled	2009	4. Drilling F	ermit Number	r (and date, i	f known	NA			
5.	Type of Well	Drilled	And development	6. Total Depth	n (ft.) 16.7	7	Diameter (i	n.) 0.75	5	
7.	Formation cl	ear of obstruction	Yes	R. Control of the Con						
3.	Detains of Pl	lugging (bentonite, n	eat cement	or other mater	rials)					*
	Filled with	3/8" Bentonite P	ellets	From (ft.)		16.7	to (ft.)		0.7	
	Kind of plug	Topsoil		From (ft.)		0.7	to (ft.)		0	
	Filled with			From (ft.)			to (ft.)			
	Kind of plug			From (ft.)			to (ft.)			
	Filled with			From (ft.)			to (ft.)			
	Kind of plug		•	From (ft.)			to (ft.)			
9.	CASING RE	CORD Upper 2 feet	t of casing re	emoved Yes		10. Da	te well was s	ealed N	Nov 17, 201	0
1.	Licensed wa	ater well driller or oth	er person ap	proved by the	Departmen	performir	ng well sealin	g		
	Name Bi	rian Schmidt			Complete l	_icense N	umber NA			
	Address	255 Corporate Wo	ods Pkwy.	City Verno	on Hills	State	Illinois		Zip Code	60061

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. Ownership (Name of Controlling Party)	BFI Waste Systems of Nor	th America, LLC	
. Well Location: Well Site Address 26V	V580 Schick Road	City Hanover Park	Zip 60133
Lot # Land I.D.# ML-28	County	uPage	Township 40N
Range 10E Section 7	SE Quarter of the	Quarter of the	NW Quarter
GPS: North Degrees Minutes	Seconds	West Minutes	Seconds
Report decimal minutes to minutes and second would be latitude 38 degrees 46 minutes 4.2 s			
. Year Drilled 2009 4. Drilling	Permit Number (and date, if k	known NA	
. Type of Well Drilled	6. Total Depth (ft.) 28.86	Diameter (in.) 0.7	5
Formation clear of obstruction Yes			
Detains of Plugging (bentonite, neat cemer	nt or other materials)		
Filled with 3/8" Bentonite Pellets	From (ft.) 28	.86 to (ft.)	0.7
Kind of plug Topsoil	From (ft.)	0.7 to (ft.)	0
Filled with	From (ft.)	to (ft.)	
Kind of plug	From (ft.)	to (ft.)	
Filled with	From (ft.)	to (ft.)	
Kind of plug	From (ft.)	to (ft.)	
CASING RECORD Upper 2 feet of casing	removed Yes	10. Date well was sealed	Nov 17, 2010
Licensed water well driller or other person	approved by the Department p	performing well sealing	
Name Brian Schmidt	Complete Lic	cense Number NA	
Address 255 Corporate Woods Pkwy	. City Vernon Hills	State Illinois	Zip Code 60061

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1.	. Ownership (Name of Controlling Party)	Vaste Systems of N	orth America, L	LC		
2.	. Well Location: Well Site Address 26W580	Schick Road	City Hand	over Park	Zip	60133
	Lot# Land I.D.# ML-30	County	DuPage	T	ownship	40N
	Range 10E Section 7	Quarter of	the SE	Quarter of the	NW	Quarter
	GPS: North Degrees Minutes	Seconds	West Degrees	Minutes	Second	s
	Report decimal minutes to minutes and seconds by m would be latitude 38 degrees 46 minutes 4.2 seconds					minutes N
3.	. Year Drilled 2009 4. Drilling Perm	it Number (and date,	if known NA			
5.	. Type of Well Drilled 6. T	otal Depth (ft.)	5 Diam	eter (in.) 0.75		
7.	. Formation clear of obstruction Yes	8				
8.	. Detains of Plugging (bentonite, neat cement or of	her materials)				
	Filled with 3/8" Bentonite Pellets	From (ft.)	28.5 to (ft.)	0.	.7	
	Kind of plug Topsoil	From (ft.)	0.7 to (ft.)		0	
	Filled with	From (ft.)	to (ft.)			
	Kind of plug	From (ft.)	to (ft.)			
	Filled with	From (ft.)	to (ft.)			
	Kind of plug	From (ft.)	to (ft.)			
9.	. CASING RECORD Upper 2 feet of casing remove	ved Yes	10. Date well	was sealed Nov	/ 17, 2010	
1.	. Licensed water well driller or other person approv	ed by the Departmen	t performing well	sealing		
	Name Brian Schmidt	Complete	License Number	NA		
	Address 255 Corporate Woods Pkwy. Cit	y Vernon Hills	State Illino	ois	Zip Code	60061

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1.	Ownership (N	Name of Controlling Party)	BFI Waste Sy	stems of N	orth Amer	rica, LLC			
2.	Well Location	n: Well Site Address	26W580 Schick F	Road	City	Hanover Par	k	Zip	60133
	Lot#	Land I.D.# ML-	31	County	DuPage		Tow	nship	40N
	Range 10	DE Section 7	SE	Quarter of t	the SE	Quarter	of the NW	/	Quarter
	GPS: North Degre		Seconds		West Degrees	s Minu	tes [	Second	ds
		nal minutes to minutes and sec tude 38 degrees 46 minutes 4.							7 minutes N
3.	Year Drilled	2009 4. Dri	lling Permit Numbe	r (and date, i	f known	NA			
5.	Type of Well	Drilled	6. Total Dept	h (ft.) 22.3	33	Diameter (in.)	0.75		
7.	Formation cle	ear of obstruction Yes							
8.	Detains of Pl	lugging (bentonite, neat cer	ment or other mate	rials)					
	Filled with	3/8" Bentonite Pellets	From (ft.)	2	22.33	to (ft.)	0.7		
	Kind of plug	Topsoil	From (ft.)		0.7	to (ft.)	0		
	Filled with		From (ft.)			to (ft.)			
	Kind of plug		From (ft.)			to (ft.)			
	Filled with		From (ft.)			to (ft.)			
	Kind of plug		From (ft.)	-		to (ft.)			
9.	CASING REG	CORD Upper 2 feet of cas	ing removed Yes		10. Da	te well was seal	ed Nov 1	7, 2010	)
1.	Licensed wa	ter well driller or other pers	on approved by the	e Departmen	t performin	g well sealing			
	Name Br	rian Schmidt		Complete	License Nu	ımber NA			
	Address	255 Corporate Woods Pk	wy. City Verno	on Hills	State	Illinois	. Z	ip Code	60061

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1.	Ownership (Name of Controlling Party)  BFI Waste Systems of North America, LLC
2.	Well Location: Well Site Address 26W580 Schick Road City Hanover Park Zip 60133
	Lot # Land I.D.# ML-33 County DuPage Township 40N
	Range 10E Section 7 SE Quarter of the SE Quarter of the NW Quarter
	GPS: North Degrees Minutes Seconds Degrees Minutes Seconds
	Report decimal minutes to minutes and seconds by multiplying the decimal part of the minutes by 60, e.g. latitude 38 degrees 46.07 minutes N would be latitude 38 degrees 46 minutes 4.2 seconds $(0.07 \times 60 = 4.2)$ N. Report GPS coordinates to the nearest 0.1 second.
3.	Year Drilled 2009 4. Drilling Permit Number (and date, if known NA
5.	Type of Well Drilled 6. Total Depth (ft.) 28.15 Diameter (in.) 0.75
7.	Formation clear of obstruction Yes
8.	Detains of Plugging (bentonite, neat cement or other materials)
	Filled with 3/8" Bentonite Pellets From (ft.) 28.15 to (ft.) 0.7
	Kind of plug Topsoil From (ft.) 0.7 to (ft.) 0
	Filled with From (ft.) to (ft.)
	Kind of plug From (ft.) to (ft.)
	Filled with From (ft.) to (ft.)
	Kind of plug From (ft.) to (ft.)
9.	CASING RECORD Upper 2 feet of casing removed Yes 10. Date well was sealed Nov 17, 2010
1.	Licensed water well driller or other person approved by the Department performing well sealing
	Name Nick Pins Complete License Number NA
	Address 255 Corporate Woods Pkwy. City Vernon Hills State Illinois Zip Code 60061

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1.	Ownership (Name of Controlling Party)  BFI Waste Systems of North America, LLC	
2.	Well Site Address 26W580 Schick Road City Hanover Park Zip 60133	3 .
	Lot # Land I.D.# ML-34 County DuPage Township 40N	
	Range 10E Section 7 SE Quarter of the SE Quarter of the NW Quarter	ter
	GPS: North Degrees Minutes Seconds West Degrees Minutes Seconds	3
	Report decimal minutes to minutes and seconds by multiplying the decimal part of the minutes by 60, e.g. latitude 38 degrees 46.07 minutes would be latitude 38 degrees 46 minutes 4.2 seconds $(0.07 \times 60 = 4.2) \text{ N}$ . Report GPS coordinates to the nearest 0.1 second.	es N
3.	Year Drilled 2009 4. Drilling Permit Number (and date, if known NA	
5.	Type of Well Drilled 6. Total Depth (ft.) 27.3 Diameter (in.) 0.75	
7.	Formation clear of obstruction Yes	
8.	Detains of Plugging (bentonite, neat cement or other materials)	
	Filled with 3/8" Bentonite Pellets From (ft.) 27.3 to (ft.) 0.7	٠
	Kind of plug Topsoil From (ft.) 0.7 to (ft.) 0	
	Filled with From (ft.) to (ft.)	
	Kind of plug From (ft.) to (ft.)	
	Filled with From (ft.) to (ft.)	
	Kind of plug From (ft.) to (ft.)	
9.	CASING RECORD Upper 2 feet of casing removed Yes 10. Date well was sealed Nov 17, 2010	
1.	Licensed water well driller or other person approved by the Department performing well sealing	
	Name Nick Pins Complete License Number NA	
	Address 255 Corporate Woods Pkwy. City Vernon Hills State Illinois Zip Code 6006	61

## ILLINOIS DEPARTMENT OF PUBLIC HEALTH DIVISION OF ENVIRONMENTAL HEALTH 525 W. JEFFERSON ST. SPRINGFIELD, IL 62761



## WATER WELL SEALING FORM

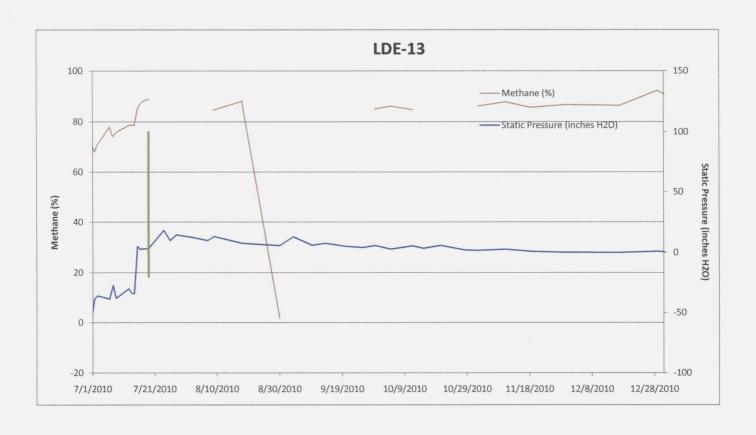
## PDF FILLABLE/SAVABLE

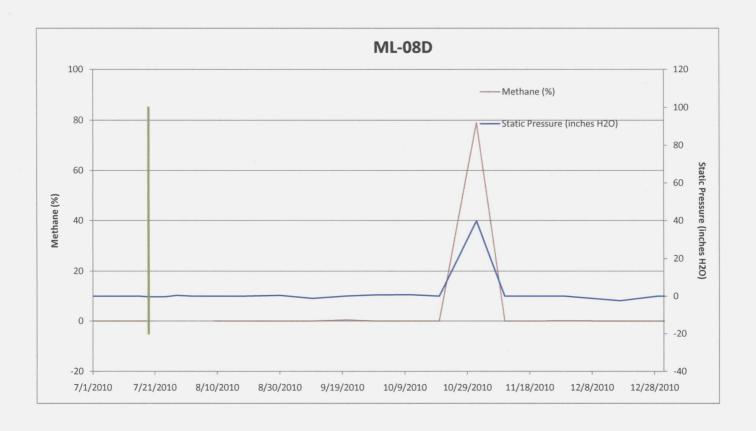
RETURN ALL COPIES TO IDPH OR LOCAL HEALTH DEPARTMENT

This form shall be submitted to this Department or the local health department not more than 30 days after a water well, boring or monitoring well is sealed. Such wells are to be sealed not more than 30 days after they are abandoned in accordance with the sealing requirements in the Illinois Water Well Construction Code. THE LOCAL HEALTH DEPARTMENT OR REGIONAL PUBLIC HEALTH DEPARTMENT MUST BE NOTIFIED AT LEAST 48 HOURS PRIOR TO SEALING.

1.	Ownership (N	Name of Controlling Party)	BFI Waste Sys	stems of Nor	th America,	LLC		
2.	Well Location	Well Site Address 26\	W580 Schick Ro	oad	City H	anover Park	. Zip	60133
	Lot#	Land I.D.# ML-36		County	)uPage		Township	40N
	Range 10	DE Section 7	SE	Quarter of th	e SE	Quarter of the	e NW	Quarter
	GPS: North Degree	nees Minutes Minutes and second	Seconds de by multiplying th	e decimal part	West Degrees	Minutes by 60 e.g. letitude	Second 38 degrees 46 0	
		tude 38 degrees 46 minutes 4.2 s						7 minutes N
3.	Year Drilled	2009 4. Drilling	g Permit Number	(and date, if	known NA			
5.	Type of Well	Drilled	6. Total Depth	(ft.) 23.39	Di	ameter (in.)	<b>'</b> 5	
7.	Formation cle	ear of obstruction Yes						
8.	Detains of Plu	ugging (bentonite, neat ceme	nt or other materi	als)				
	Filled with	3/8" Bentonite Pellets	From (ft.)	23	3.39 to (	ft.)	0.7	
	Kind of plug	Topsoil	From (ft.)		0.7 to (	ft.)	0	
	Filled with		From (ft.)		to (	ft.)		
	Kind of plug		From (ft.)		to (	ft.)		
	Filled with		From (ft.)		to (	ft.)		
9	Kind of plug		From (ft.)		to (	ft.)		
9.	CASING REC	CORD Upper 2 feet of casing	removed Yes		10. Date w	ell was sealed	Nov 17, 2010	)
1.	Licensed wat	ter well driller or other person	approved by the	Department	performing w	ell sealing		
	Name Ni	ick Pins		Complete Li	cense Numb	er NA		
	Address	255 Corporate Woods Pkwy	City Verno	n Hills	State II	linois	Zip Code	60061

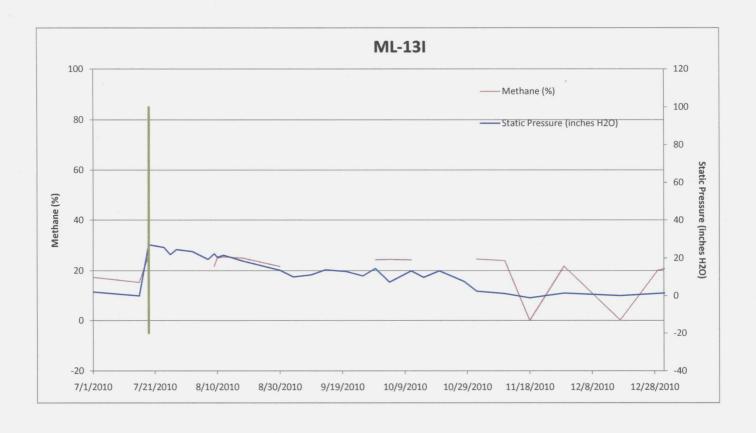
# Appendix B Methane and Pressure Graphs

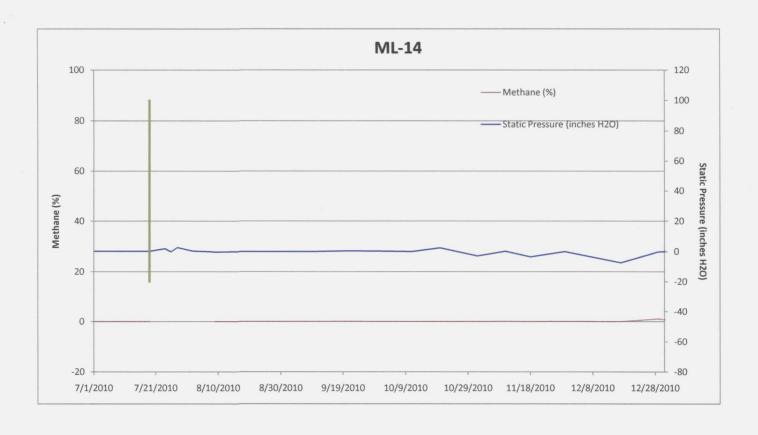






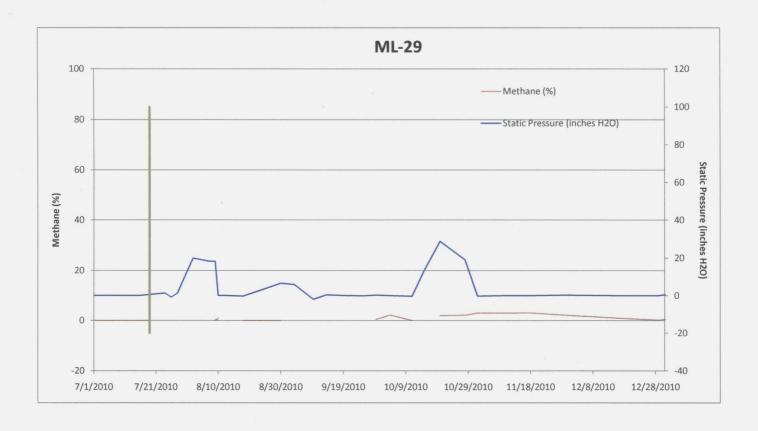


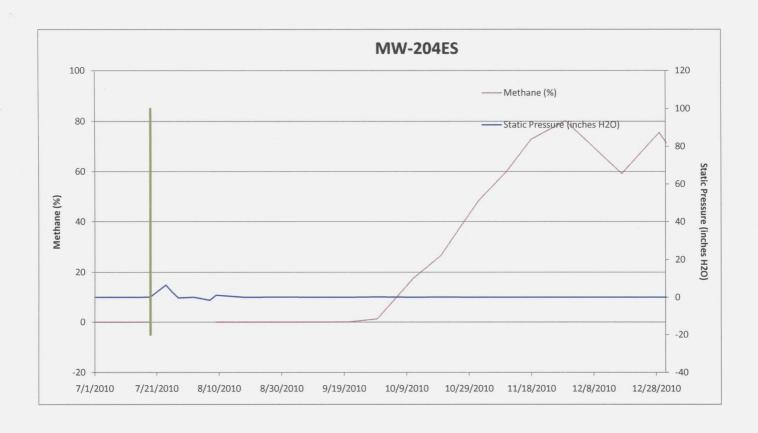












Appendix C

Probe and Well Monitoring Data (CD)